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FIG. 1a(1)

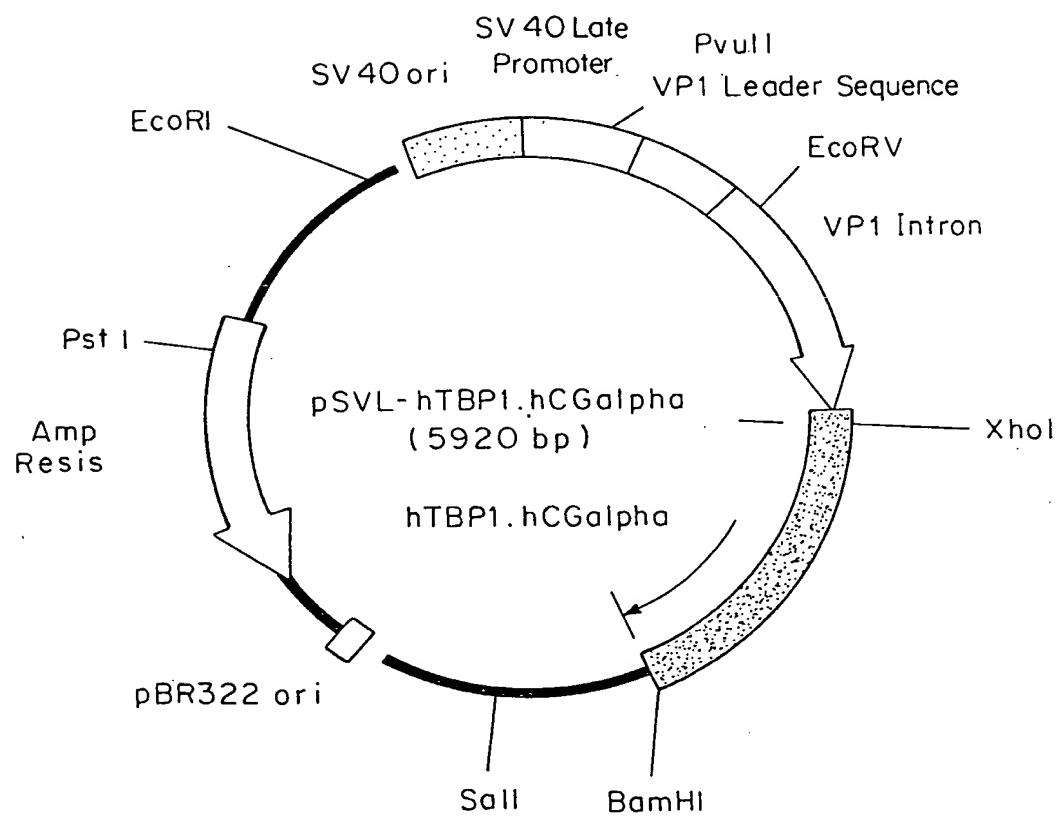


FIG. 1a(2)

Xho I hGH Signal Sequence
 TCGAG ATG GCT ACA G GTAA
 Met Ala Thr

hGHI Intron

FIG. 1b(1)

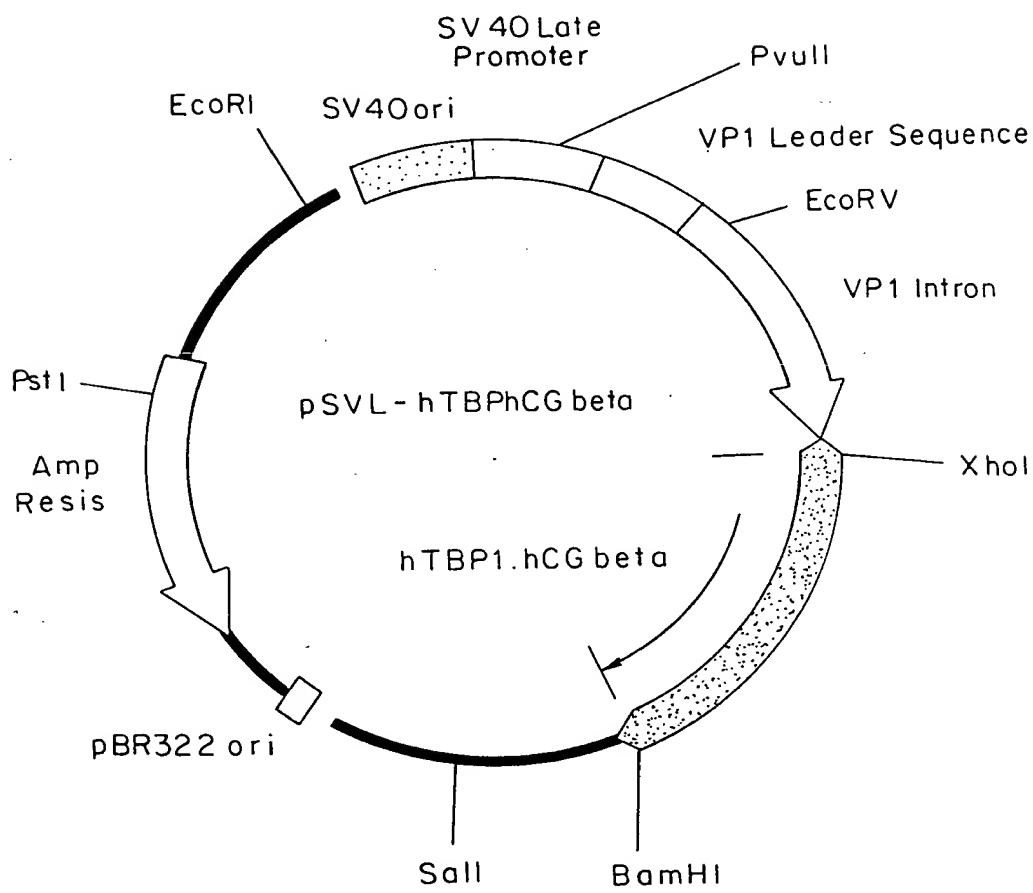


FIG. 1b(2)

hGH Signal Sequence
 hGH Intron
 XbaI
 XbaI ATG GCT ACA G GAAAGCCCCCTATGGCCATGGTAAAGCCAGTTGGCAATCTCAGAAAGCTCTGGCTGGGGACACTGAGGGAGGGTACCTGAGTGGGAGGAGTGGCTGAC
 CTCCTCTCTCGGGCTCCCTCTGTGGCTCTCCCTCTGGCTCTGGGGACACTGAGGGAGGGTACCTGAGTGGGAGGAGTGGCTGAC
 TCC CGG ACG TCC CTG CTC GCT TTT GGC CTG CTC TGC TGC CTC
 Ser Arg Thr Ser Leu Leu Ala Phe Gly Leu Cys Leu
 +20 Asp of Processed TBPI
 CCC TGG CTT CAA GAG GGC AGT GCC GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC
 Pro Trp Leu Glu Gly Ser Ala Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Ser Ile Cys Cys Thr
 AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC
 Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Gly Cys Glu Ser Gly Ser Phe Thr
 GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC
 Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
 CGG GAC ACC GTG CAC CTC TCC TGC CAG AGG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TCC AAT TGC AGC CTC TGC CTC
 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Ser Leu Cys Leu
 AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TGC TCC AAT GAG GAA AAT GAG TGT GTC
 Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Cys Thr Val Cys Thr Cys His Ala Gly Phe Leu Arg Glu Asn Glu Cys Val
 Linker
 +7 Pro of hGH beta
 TCC TGT GCT GGT CCA CGG TGC CGC CCC ATC AAT GCC ACC CTG GCT GTG GAG AAG GAG GGC TGC CCC GTG TGC ATC ACC GTC
 Ser Cys Ala Gly Pro Arg Cys Arg Pro Ile Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr Val
 AAC ACC AAC ATC TGT GCC GGC TAC TGC CCC ACC ATG ACC CGC GTC CAG CAG CTC CCG GCC CTG CCT CAG GTC GTG TGC AAC TAC
 Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Thr Arg Val Leu Gln Gly Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr
 CGC GAT GTG CGC TTC GAG TCC ATC CGG CTC CCT GGC TGC CCG CGC GGC GTG AAC CCC GTG GTC TCC TAC GGC GTG GCT CTC AGC TGT CAA
 Arg Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Val Asn Pro Arg Gly Val Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln
 TGT GCA CTC TGC CGC CGC AGC ACC ACT GAC TGC TGG GGG GGT CCC AAG GAC CAC CCC TGT GAT GAC CCC TGC CAG GAC TCC TCC TGT
 Cys Ala Leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser
 TCC TCA AAC GCC CCC CCC AGC CTT CCA AGC CCA TCC CGA CTC CCG GGG CCC TCG GAC ACC CCG ATC CTC CCA CAA TAA
 Ser Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Arg Leu Pro Gln Asp Ser Asp Thr Pro Ile Leu Pro Gln ***
 BamH I

FIG. 2a(1)

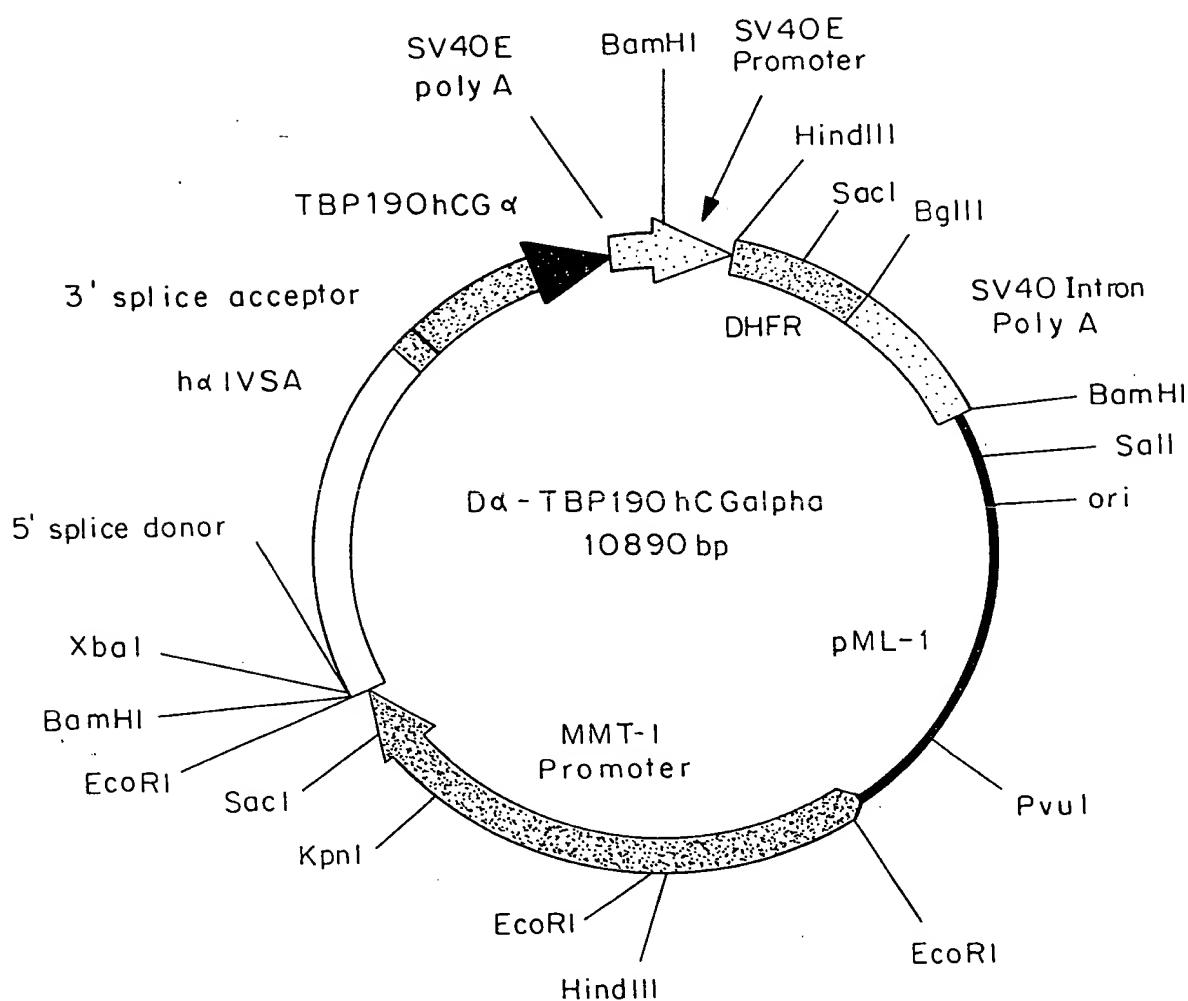
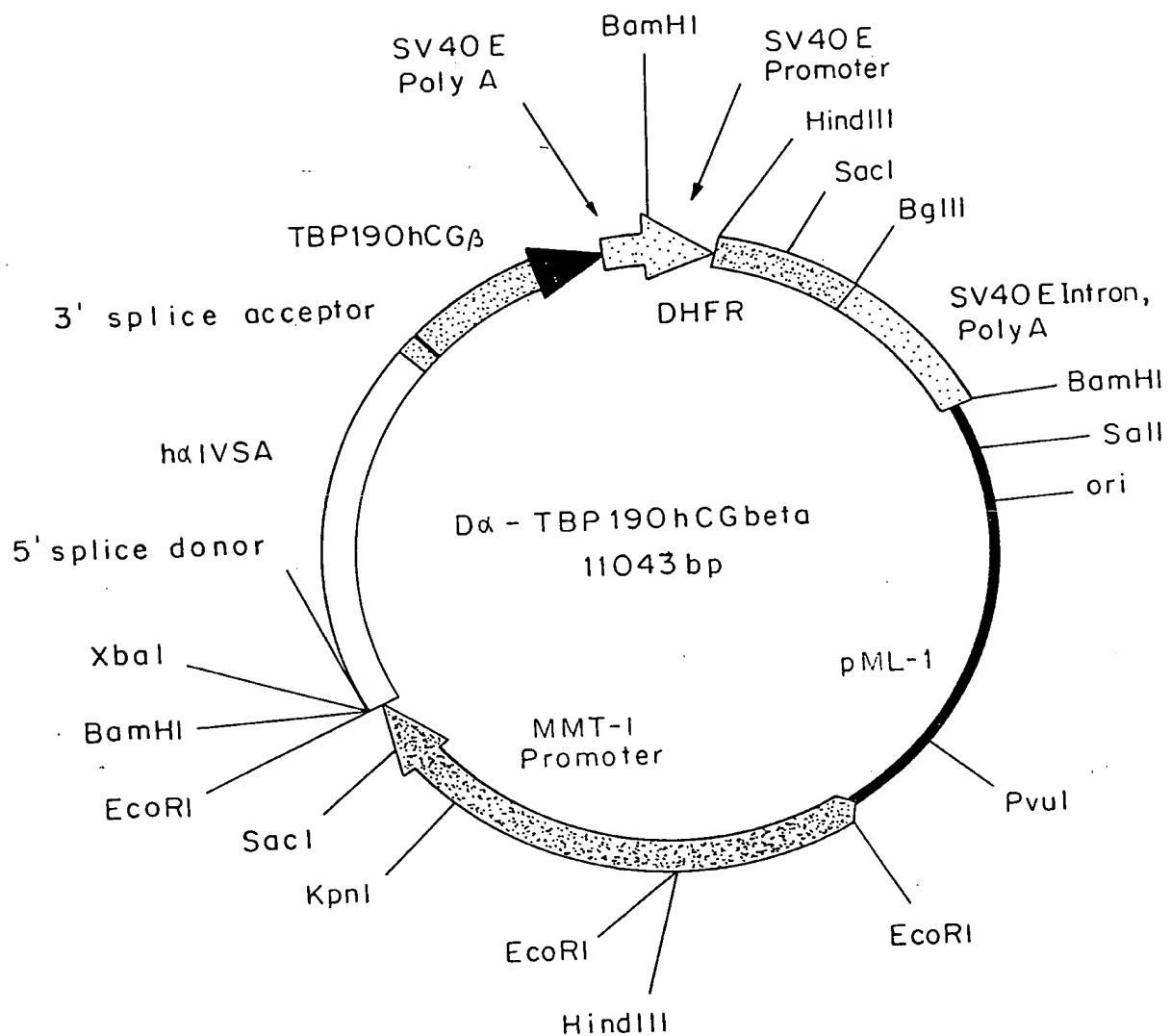


FIG. 2a(2)

FIG. 2b(1)



F/G. 2b(2)

Xhol hGH-Signal Sequence hGH Intron
 ATG GCT ACA G GTAAAGCCCTAAATCCCTTGGGACATGTGTCCTAGGGAGAAGCAGCTGACTAGATGGACGGGGCACTAACCCCTAGGGTGGG
 Met Ala Thr
 GCTCTGAAATGCTGAGGATATGCCATGAAAGCCAGTATTGGCAATCTAGAAAGCTCCTGGTCCCTGAGGGATGGAGAGAGAAACAGCTCTGTAGAGTGGC
 CCC TGG CTT CAA GAG GGC AGT GCC GAT AGT GAG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT TCG ATT TGC TGT ACC
 Pro Trp Leu Glu Gly Ser Ala Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Ser Ile Cys Cys Thr
 Arg TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GAG GAT AGC GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC
 Lys Cys His Lys Gly Thr Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr
 GCT TCA GAA AAC CAC TCG CTC AGA CAC TGC TCC AGC TGC TCC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TGT ACA GTG GAC
 Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
 CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGC AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC
 Arg Asp Thr Val Cys Gly Arg Lys Asn Gln Tyr Arg His Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Ser Leu Cys Leu
 AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC
 Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val
 TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC
 Ser Cys Ser Asn Cys Lys Ser Leu Glu Cys Thr Lys Leu Cys Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser Gly Thr
 Linker +7 Pro of beta
 ACA GCT GGT GCT GGT CCA CGG TGC CGC CCC ATC AAC GCC ACC CTG CAG GGG GTC CTG CGC CCT CAG GTG TGC AAC TAC CGC
 Thr Ala Gly Pro Arg Cys Arg Pro Ile Asn Ala Thr Leu Ala Val Glu Lys Glu Cys Pro Val Cys Ile Thr Val Asn
 ACC ACC ATC TGT GCC TAC TGC CCC ACC ATG ACC CGC GTG CTG CAG GGG GTC CTG CGC CCT CAG GTG GCT CTC AGC TGT CAA TGT
 Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Thr Arg Val Val Glu Val Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 GAT GTG CGC TTC GAG TCC ATC CGG CTC CCT GGC TGC CGC CGC GGC GTG AAC CCC GTG GTC TCC TAC GCC GTG GCT CTC AGC TGT CTC
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Val Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys
 GCA CTC TGC CGC CGC AGC ACC ACT GAC TGC GGG GGT CCC AAG GAC CAC CCC TTG ACC TGT GAT GAC CCC CGC TTC CAG GAC TCC TCT TCC
 Ala Leu Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser
 TCA AAG GCC CCT CCC CGC CTT CCA AGC CCA TCC CGA CTC CGG CCC TCG GAC ACC CCG ATC CTC CCA CAA TAA GGATCCCTGAG
 Ser Lys Ala Pro Pro Pro Ser Leu Pro Ser Arg Leu Pro Arg Leu Pro Ser Asp Thr Pro Ile Leu Pro Gln *** BamHI Xhol

FIG. 3

p55 TNFR1, TBP1 and TBP1 FUSION CONSTRUCTS

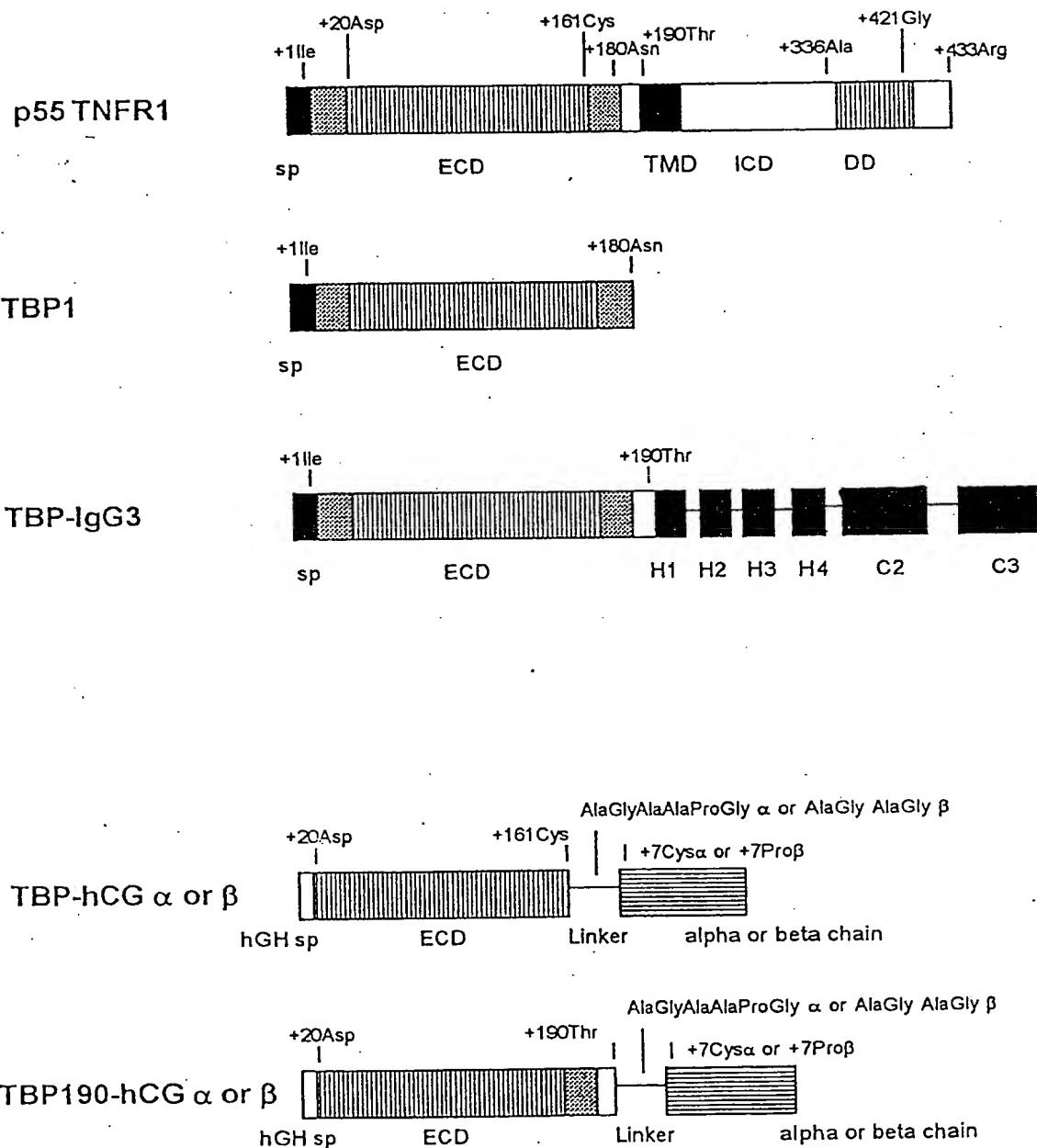


FIG. 4

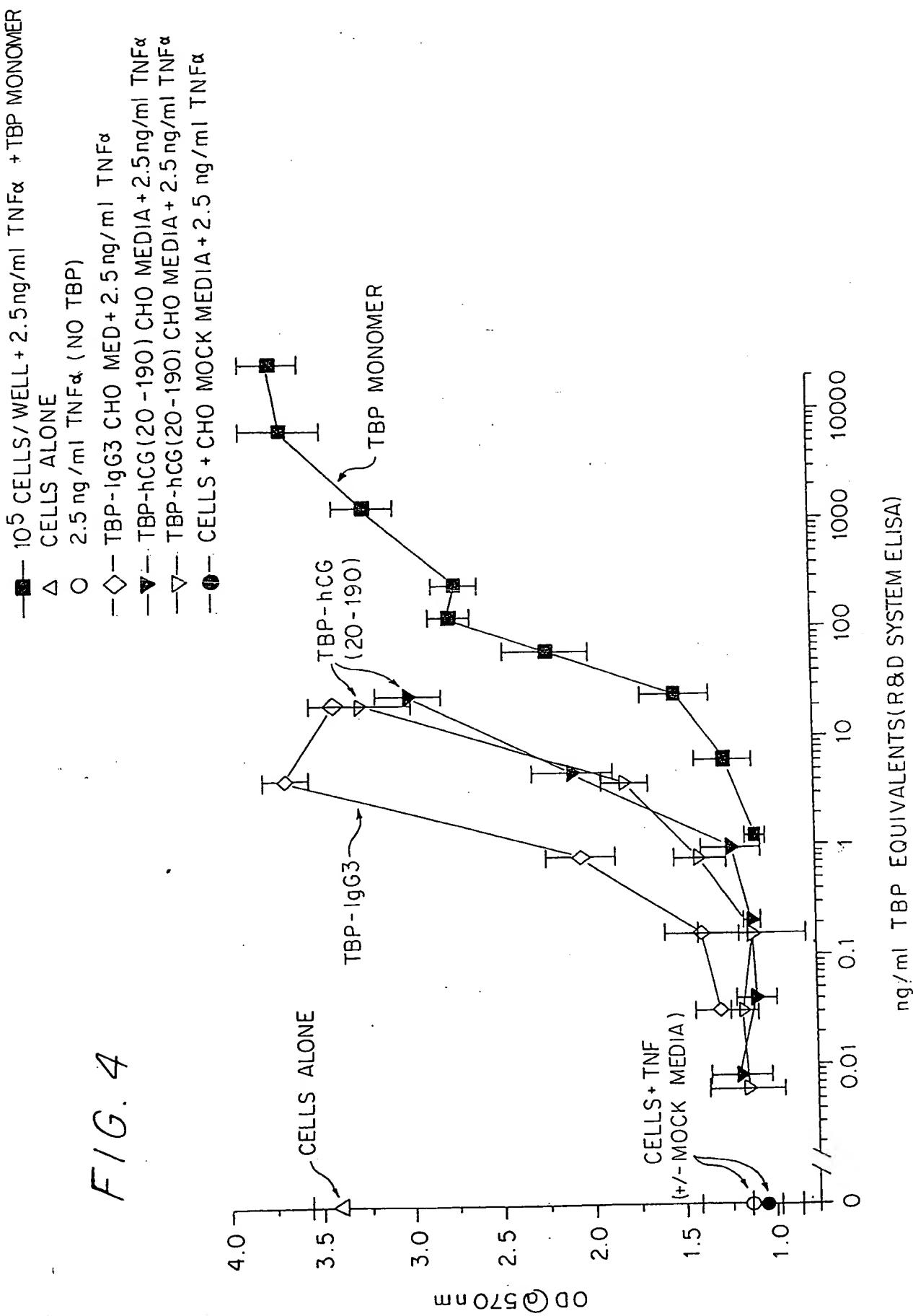


FIG. 5

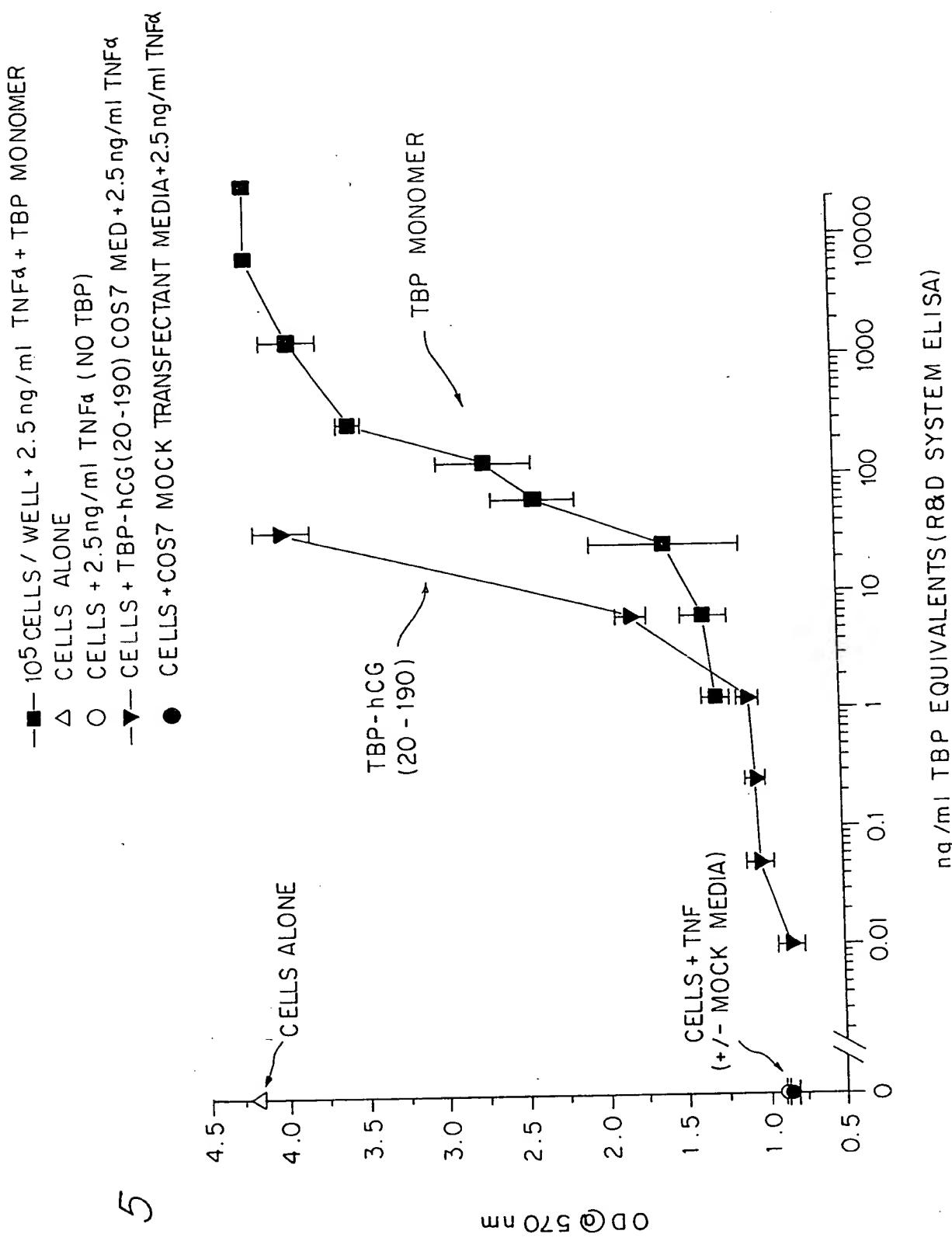


FIG. 6

